

ABSTRACT

A common source, bi-directional microwave amplifier is described. More particularly, the present invention is a microwave, common source, bi-directional amplifier that includes a first amplification path and a second amplification path wherein the signal directional flow is controlled through the selective biasing of the first amplification path and the second amplification path. Each amplification path is designed to optimize desired performance. For signal flow through the first amplification path, the first amplification path is biased-on and the second path is biased-off. For signal flow through the second amplification path, the second amplification path is biased-on and the first path is biased-off.